



ARC TESTING LABORATORY

NABL ACCREDITED & ISO:9001:2015 CERTIFIED LABORATORY

Kh.No.- 42/9/4, Village - Badli, Near Aastha Hospital, New Delhi - 110042

Phone: 011-27853170, 9818555221, 9911221243

Email:- arctestlab@gmail.com, website:- www.arctestlab.com

TEST REPORT

Issued To: M/s LIPKA Udyog
24/11 & 24/12, Gali No. 6,
Libaspur Industrial Area,
New Delhi - 110042

Report No.: ARC022K20/04001

Job Order No.: ARC-022004001

Ref. No.: Nil

Sample Name : Stainless Steel Bib Tap
Sample Quantity : 1 No.
Sample Condition : Good (Loose)

<u>S. No.</u>	<u>Test</u>	<u>Test Method</u>	<u>Result</u>	<u>Requirement</u> IS 781:1984	<u>Conformity</u>
1.	Workmanship	IS 781:1984	Satisfactory	All casting shall be sound and free from laps, blow holes and pitting & Both external & internal surface shall be clean, smooth & free from sand	Yes
2.	Finish	IS 781:1984	Satisfactory	The bib tap shall be always polished bright	Yes
3.	Mass, kg	IS 781:1984	0.648	--	--
4.	Hydrostatic Pressure (2MPa maintained for 2 minutes)	IS 781:1984	Passes the Test	There shall be no leakage nor sweat	Yes

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Report No.: ARC022K20/04002
Job Order No.: ARC-022004002
Ref. No.: Nil

Sample Name : Copper Valve (Sample No. 1)
Sample Quantity : 1 No.
Sample Condition : Good (Loose)

Test Method: Cu – 20 – M

S. No.	Test	Result
1.	Zinc (Zn), %	38.02
2.	Lead (Pb), %	4.95
3.	Tin (Sn), %	0.629
4.	Phosphorus (P), %	<0.00050
5.	Manganese (Mn), %	0.0151
6.	Iron (Fe), %	0.558
7.	Nickel (Ni), %	0.529
8.	Silicon (Si), %	0.0119
9.	Chromium (Cr), %	0.0039
10.	Tellurium (Te), %	<0.00030
11.	Arsenic (As), %	0.0187
12.	Antimony (Sb), %	0.0665
13.	Bismuth (Bi), %	0.0109
14.	Silver (Ag), %	0.0265
15.	Cobalt (Co), %	<0.0015
16.	Aluminium (Al), %	0.113
17.	Sulphur (S), %	0.0036
18.	Beryllium (Be), %	<0.00010
19.	Zirconium (Zr), %	<0.00020
20.	Gold (Au), %	0.0135
21.	Boron (B), %	<0.00020
22.	Carbon (C), %	0.0023
23.	Titanium (Ti), %	0.00031
24.	Selenium (Se), %	0.0194
25.	Niobium (Nb), %	<0.0010
26.	Platinum (Pt), %	<0.0020
27.	Copper (Cu), %	55.0

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Report No.: ARC022K20/04003
Job Order No.: ARC-022004003
Ref. No.: Nil

Sample Name : Copper Valve (Sample No. 2)
Sample Quantity : 1 No.
Sample Condition : Good (Loose)

Test Method: Cu – 20 – M

S. No.	Test	Result
1.	Zinc (Zn), %	42.49
2.	Lead (Pb), %	2.55
3.	Tin (Sn), %	0.0937
4.	Phosphorus (P), %	0.0588
5.	Manganese (Mn), %	0.0523
6.	Iron (Fe), %	0.164
7.	Nickel (Ni), %	0.0412
8.	Silicon (Si), %	0.0093
9.	Chromium (Cr), %	0.0022
10.	Tellurium (Te), %	<0.00030
11.	Arsenic (As), %	0.0087
12.	Antimony (Sb), %	0.0521
13.	Bismuth (Bi), %	0.0082
14.	Silver (Ag), %	0.0099
15.	Cobalt (Co), %	<0.0015
16.	Aluminium (Al), %	0.118
17.	Sulphur (S), %	0.0063
18.	Beryllium (Be), %	<0.00010
19.	Zirconium (Zr), %	<0.00020
20.	Gold (Au), %	0.0158
21.	Boron (B), %	0.00041
22.	Carbon (C), %	0.0177
23.	Titanium (Ti), %	0.00041
24.	Selenium (Se), %	0.0311
25.	Niobium (Nb), %	<0.0010
26.	Platinum (Pt), %	<0.0020
27.	Copper (Cu), %	54.3

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Report No.: ARC022K20/04004
Job Order No.: ARC-022004004
Ref. No.: Nil

Sample Name : Copper Valve (Sample No. 3)
Sample Quantity : 1 No.
Sample Condition : Good (Loose)

Test Method: Cu – 20 – M

S. No.	Test	Result
1.	Zinc (Zn), %	42.31
2.	Lead (Pb), %	4.78
3.	Tin (Sn), %	0.553
4.	Phosphorus (P), %	0.135
5.	Manganese (Mn), %	0.0345
6.	Iron (Fe), %	0.192
7.	Nickel (Ni), %	0.274
8.	Silicon (Si), %	0.0234
9.	Chromium (Cr), %	0.0078
10.	Tellurium (Te), %	0.0057
11.	Arsenic (As), %	0.241
12.	Antimony (Sb), %	1.50
13.	Bismuth (Bi), %	0.0127
14.	Silver (Ag), %	0.0200
15.	Cobalt (Co), %	<0.0015
16.	Aluminium (Al), %	0.0320
17.	Sulphur (S), %	0.0942
18.	Beryllium (Be), %	0.0598
19.	Zirconium (Zr), %	0.0044
20.	Gold (Au), %	0.0155
21.	Boron (B), %	<0.00020
22.	Carbon (C), %	>0.0732
23.	Titanium (Ti), %	0.0039
24.	Selenium (Se), %	0.361
25.	Niobium (Nb), %	<0.0010
26.	Platinum (Pt), %	0.0037
27.	Copper (Cu), %	49.22

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Report No.: ARC022K20/04005
Job Order No.: ARC-022004005
Ref. No.: Nil

Sample Name : Copper Valve (Sample No. 4)
Sample Quantity : 1 No.
Sample Condition : Good (Loose)

Test Method: Cu – 20 – M

S. No.	Test	Result
1.	Zinc (Zn), %	43.40
2.	Lead (Pb), %	3.35
3.	Tin (Sn), %	0.0529
4.	Phosphorus (P), %	0.0644
5.	Manganese (Mn), %	0.189
6.	Iron (Fe), %	0.403
7.	Nickel (Ni), %	0.0334
8.	Silicon (Si), %	0.0177
9.	Chromium (Cr), %	0.0048
10.	Tellurium (Te), %	0.00043
11.	Arsenic (As), %	0.0264
12.	Antimony (Sb), %	0.232
13.	Bismuth (Bi), %	0.0106
14.	Silver (Ag), %	0.0075
15.	Cobalt (Co), %	<0.0015
16.	Aluminium (Al), %	0.0754
17.	Sulphur (S), %	0.0260
18.	Beryllium (Be), %	<0.00010
19.	Zirconium (Zr), %	0.0014
20.	Gold (Au), %	0.0259
21.	Boron (B), %	<0.00020
22.	Carbon (C), %	0.0338
23.	Titanium (Ti), %	0.0014
24.	Selenium (Se), %	0.0789
25.	Niobium (Nb), %	<0.0010
26.	Platinum (Pt), %	0.0070
27.	Copper (Cu), %	51.9

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Report No.: ARC022K20/04006
Job Order No.: ARC-022004006
Ref. No.: Nil

Sample Name : Copper Valve (Sample No. 5)
Sample Quantity : 1 No.
Sample Condition : Good (Loose)

Test Method: Cu – 20 – M

S. No.	Test	Result
1.	Zinc (Zn), %	37.37
2.	Lead (Pb), %	4.08
3.	Tin (Sn), %	0.936
4.	Phosphorus (P), %	0.0043
5.	Manganese (Mn), %	0.0876
6.	Iron (Fe), %	0.349
7.	Nickel (Ni), %	0.277
8.	Silicon (Si), %	0.0555
9.	Chromium (Cr), %	0.0138
10.	Tellurium (Te), %	<0.00030
11.	Arsenic (As), %	0.0103
12.	Antimony (Sb), %	0.0295
13.	Bismuth (Bi), %	0.0184
14.	Silver (Ag), %	0.0246
15.	Cobalt (Co), %	<0.0015
16.	Aluminium (Al), %	0.114
17.	Sulphur (S), %	0.0063
18.	Beryllium (Be), %	<0.00010
19.	Zirconium (Zr), %	<0.00020
20.	Gold (Au), %	0.0228
21.	Boron (B), %	<0.00020
22.	Carbon (C), %	0.0020
23.	Titanium (Ti), %	0.00028
24.	Selenium (Se), %	0.0199
25.	Niobium (Nb), %	<0.0010
26.	Platinum (Pt), %	<0.0020
27.	Copper (Cu), %	56.6

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Report No.: ARC022K20/04007

Job Order No.: ARC-022004007

Ref. No.: Nil

Sample Name : Copper Valve (Sample No. 6)
Sample Quantity : 1 No.
Sample Condition : Good (Loose)

Test Method: Cu – 20 – M

S. No.	Test	Result
1.	Zinc (Zn), %	38.77
2.	Lead (Pb), %	4.49
3.	Tin (Sn), %	0.950
4.	Phosphorus (P), %	<0.00050
5.	Manganese (Mn), %	0.0089
6.	Iron (Fe), %	0.879
7.	Nickel (Ni), %	0.975
8.	Silicon (Si), %	0.0135
9.	Chromium (Cr), %	0.0028
10.	Tellurium (Te), %	<0.00030
11.	Arsenic (As), %	0.0132
12.	Antimony (Sb), %	0.0488
13.	Bismuth (Bi), %	0.0111
14.	Silver (Ag), %	0.0235
15.	Cobalt (Co), %	<0.0015
16.	Aluminium (Al), %	0.0915
17.	Sulphur (S), %	0.0039
18.	Beryllium (Be), %	<0.00010
19.	Zirconium (Zr), %	<0.00020
20.	Gold (Au), %	0.0142
21.	Boron (B), %	<0.00020
22.	Carbon (C), %	0.0029
23.	Titanium (Ti), %	0.00050
24.	Selenium (Se), %	0.0179
25.	Niobium (Nb), %	<0.0010
26.	Platinum (Pt), %	<0.0020
27.	Copper (Cu), %	53.7

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Report No.: ARC022K20/04008
Job Order No.: ARC-022004008
Ref. No.: Nil

Sample Name : Copper Valve (Sample No. 7)
Sample Quantity : 1 No.
Sample Condition : Good (Loose)

Test Method: Cu – 20 – M

S. No.	Test	Result
1.	Zinc (Zn), %	41.20
2.	Lead (Pb), %	2.38
3.	Tin (Sn), %	0.125
4.	Phosphorus (P), %	0.0627
5.	Manganese (Mn), %	0.0904
6.	Iron (Fe), %	0.114
7.	Nickel (Ni), %	0.0398
8.	Silicon (Si), %	0.0147
9.	Chromium (Cr), %	0.0032
10.	Tellurium (Te), %	<0.00030
11.	Arsenic (As), %	0.0062
12.	Antimony (Sb), %	0.0184
13.	Bismuth (Bi), %	0.0079
14.	Silver (Ag), %	0.0216
15.	Cobalt (Co), %	<0.0015
16.	Aluminium (Al), %	0.342
17.	Sulphur (S), %	0.0032
18.	Beryllium (Be), %	<0.00010
19.	Zirconium (Zr), %	<0.00020
20.	Gold (Au), %	0.0219
21.	Boron (B), %	0.0033
22.	Carbon (C), %	0.0057
23.	Titanium (Ti), %	0.0031
24.	Selenium (Se), %	0.0241
25.	Niobium (Nb), %	<0.0010
26.	Platinum (Pt), %	<0.0020
27.	Copper (Cu), %	55.5

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Report No.: ARC022K20/04009
Job Order No.: ARC-022004009
Ref. No.: Nil

Sample Name : Copper Valve (Sample No. 8)
Sample Quantity : 1 No.
Sample Condition : Good (Loose)

Test Method: Cu - 20 - M

S. No.	Test	Result
1.	Zinc (Zn), %	37.44
2.	Lead (Pb), %	3.39
3.	Tin (Sn), %	0.637
4.	Phosphorus (P), %	<0.00050
5.	Manganese (Mn), %	0.0365
6.	Iron (Fe), %	0.328
7.	Nickel (Ni), %	0.323
8.	Silicon (Si), %	0.0439
9.	Chromium (Cr), %	0.0075
10.	Tellurium (Te), %	<0.00030
11.	Arsenic (As), %	0.0126
12.	Antimony (Sb), %	0.0375
13.	Bismuth (Bi), %	0.0194
14.	Silver (Ag), %	0.0201
15.	Cobalt (Co), %	<0.0015
16.	Aluminium (Al), %	0.503
17.	Sulphur (S), %	0.0042
18.	Beryllium (Be), %	<0.00010
19.	Zirconium (Zr), %	<0.00020
20.	Gold (Au), %	0.0142
21.	Boron (B), %	<0.00020
22.	Carbon (C), %	0.0070
23.	Titanium (Ti), %	0.00048
24.	Selenium (Se), %	0.0197
25.	Niobium (Nb), %	<0.0010
26.	Platinum (Pt), %	<0.0020
27.	Copper (Cu), %	57.1

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